



CSIR-INSTITUTE OF MINERALS & MATERIALS TECHNOLOGY.

(A Govt. of India Autonomous Body)

Environmental Chemical Laboratory

Bhubaneswar, Odisha

TEST REPORT

Sample Code: 2026/NABL/ECL/044	Date : 30.09.2026
Test report No -202608ECL047	
Source of Sample : Admin Building	Sample receiving Date : 25.08.2026
Type of Sample : Drinking Water	Sample Analysis Date : 25.08.2026

Sl. No.	parameters	Units	Test Method (P) of IS:3025	Requirements as per IS 10500:2012 (Latest Version)		Test Result
				Acceptable limit	Permissible Limit	
1.	Turbidity	NTU	Part 10	1	5	0.71
2.	pH Value (at 25.0° C)	--	Part 11	6.5-8.5	No relaxation	7.65
3.	Total Dissolved Solids	mg/l	Part 16	500	2000	115.0
4.	Total Hardness as CaCO ₃	mg/l	Part 21	200	600	70.0
5.	Calcium as Ca	mg/l	Part 40	75	200	20.0
6.	Magnesium as Mg	mg/l	Part 46	30	100	4.86
7.	Total Alkalinity as CaCO ₃	mg/l	Part 23	200	600	70.0
8.	Chloride as Cl	mg/l	Part 32	250	1000	15.0
9.	Sulphate as SO ₄	mg/l	Part 24	200	400	8.64
10.	Fluoride as F	mg/l	Part 60	1.0	1.5	0.17
11.	Iron as Fe	mg/l	Part 53	0.3	No relaxation	0.073
12.	Copper as Cu	mg/l	Part 42	0.05	1.5	0.240
13.	Manganese as Mn	mg/l	APHA 3111B	0.1	0.3	<0.04
14.	Zinc as Zn	mg/l	Part 49	5.0	15.0	0.147
15.	Lead as Pb	mg/l	Part 47	0.01	No relaxation	0.047
16.	Cadmium as Cd	mg/l	Part 41	0.003	No relaxation	0.011
17.	Chromium as Cr	mg/l	Part 52	0.05	No relaxation	<0.05
18.	Nickel as Ni	mg/l	Part 54	0.02	No relaxation	<0.04

BDL = Below Detection Limit, LDL = Lower Detection Limit

Reviewed & Authorized by


Dr. Arakshita Majhi

Senior Principal Scientist

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NOTES :

1. The sample is drawn by the client & result relates to the sample tested.
2. This certificate shall not be reproduced wholly or in part without prior written consent of the laboratory.
3. This certificate shall not be used in any advertising media or as evidence in the court of Law without prior written consent of laboratory.
4. Latest version of test methods used as per latest specification.
5. It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned in "acceptable limit" render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicate under "permissible limit" in the absence of alternative sources, above which the source will have to be rejected.

'End of Test Report'



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19.	Colour	Hazen units	Part 4	5	15	<5
20.	Odour	--	Part 5	Agreeable	Agreeable	Agreeable
21.	Conductivity	µs/cm	Part 14	-	-	185.7
22.	Total Suspended Solid	mg/l	Part 17	-	-	<1.0
23.	Nitrite as NO ₂	mg/l	Part 34	-	-	0.129
24.	Nitrate as NO ₃	mg/l	Part 34	45	No relaxation	5.24
25.	Sodium,	mg/l	Part 45	-	-	10.62
26.	Potassium	mg/l	Part 45	-	-	1.14
27.	Residual Free Chlorine	mg/l	Part 26	0.2	1.0	<0.2
28.	Arsenic as As	mg/l	Part 37	0.01	No relaxation	<0.01
29.	Dissolved Oxygen	mg/l	Part 38	-	-	6.50
30.	Biological Oxygen Demand	mg/l	Part 44	-	-	0.10
31.	Chemical Oxygen Demand	mg/l	Part 58	-	-	<1.0
32.	Mineral Oil	mg/l	Part 39	0.5	No relaxation	<0.5

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Senior Principal Scientist

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